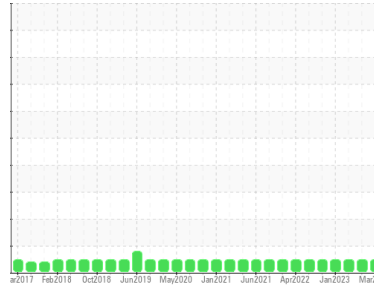




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Materials Handling/NE Pedestal Crane
 Machine Id
WPD471231 CRANE PEDESTAL NORTH EAST

Component
1 Slewing Gearbox
 Fluid
MOBIL MOBILUBE HD 80W90 (---)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PP | PP13897519 | PP13891525 |
| Sample Date | Client Info | 27 Mar 2024 | 01 Jul 2023 | 03 May 2023 |
| Machine Age | hrs | 0 | 0 | 0 |
| Oil Age | hrs | 0 | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|----------------|------------|----------|----------|
| Water | WC Method >0.2 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|-----------|-----------------------|--------------|----------|----------|
| PQ | ASTM D8184* | 0 | 8 | 0 |
| Iron | ppm ASTM D5185(m) >50 | 2 | 8 | 6 |
| Chromium | ppm ASTM D5185(m) >10 | 0 | 0 | 0 |
| Nickel | ppm ASTM D5185(m) >10 | 0 | 0 | 0 |
| Titanium | ppm ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm ASTM D5185(m) | 0 | <1 | 0 |
| Aluminum | ppm ASTM D5185(m) | 0 | <1 | 0 |
| Lead | ppm ASTM D5185(m) >15 | 0 | 0 | 0 |
| Copper | ppm ASTM D5185(m) >10 | <1 | <1 | 0 |
| Tin | ppm ASTM D5185(m) >10 | 0 | 0 | 0 |
| Antimony | ppm ASTM D5185(m) >5 | 0 | 0 | 0 |
| Vanadium | ppm ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm ASTM D5185(m) | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|-------------------|--------------|----------|----------|
| Boron | ppm ASTM D5185(m) | 178 | 167 | 162 |
| Barium | ppm ASTM D5185(m) | 0 | 0 | 0 |
| Molybdenum | ppm ASTM D5185(m) | 0 | <1 | 0 |
| Manganese | ppm ASTM D5185(m) | 0 | <1 | <1 |
| Magnesium | ppm ASTM D5185(m) | <1 | 2 | 1 |
| Calcium | ppm ASTM D5185(m) | 1 | 4 | 3 |
| Phosphorus | ppm ASTM D5185(m) | 1006 | 1062 | 1088 |
| Zinc | ppm ASTM D5185(m) | 3 | 9 | 8 |
| Sulfur | ppm ASTM D5185(m) | 21595 | 23969 | 24372 |
| Lithium | ppm ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

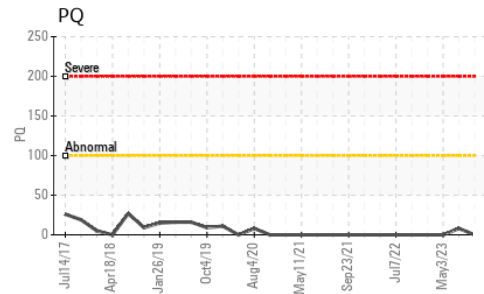
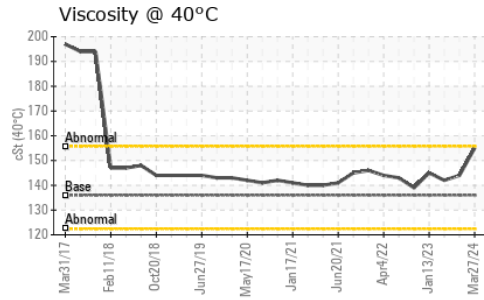
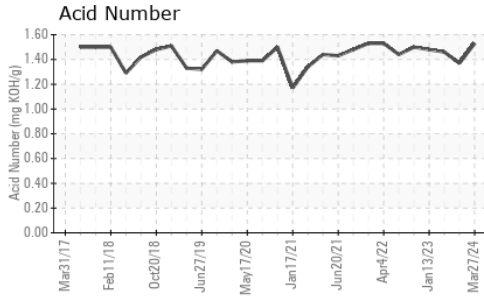
| method | limit/base | current | history1 | history2 |
|-----------|-----------------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185(m) >25 | 0 | 2 | 2 |
| Sodium | ppm ASTM D5185(m) | 0 | <1 | <1 |
| Potassium | ppm ASTM D5185(m) >20 | <1 | <1 | <1 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|---------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D974* | 1.53 | 1.37 | 1.46 |



OIL ANALYSIS REPORT



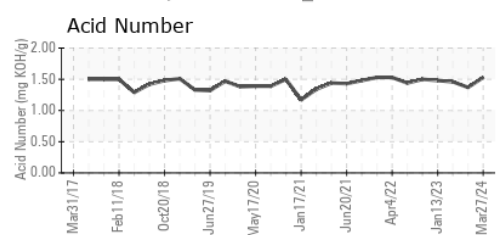
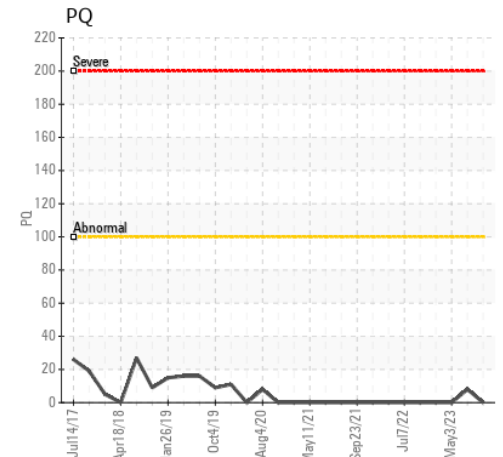
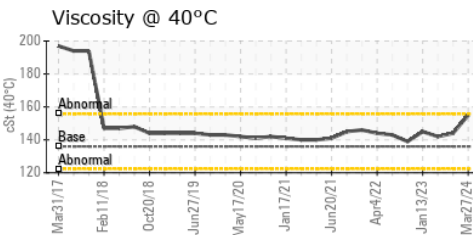
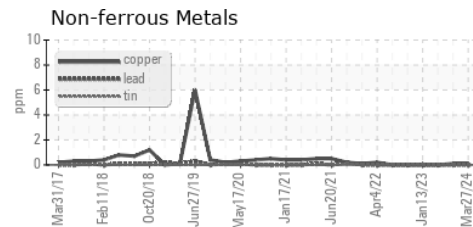
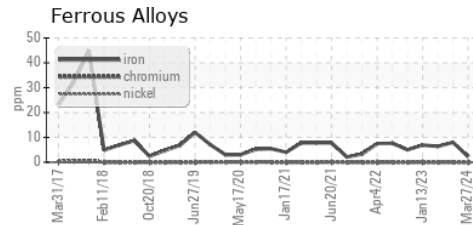
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 136 | 155 | 144 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : PP
 Lab Number : 02625423
 Unique Number : 5750542
 Test Package : MAR 2 (Additional Tests: TAN Man)

ExxonMobil Canada East Ltd.
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 St. John's, NL
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 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.